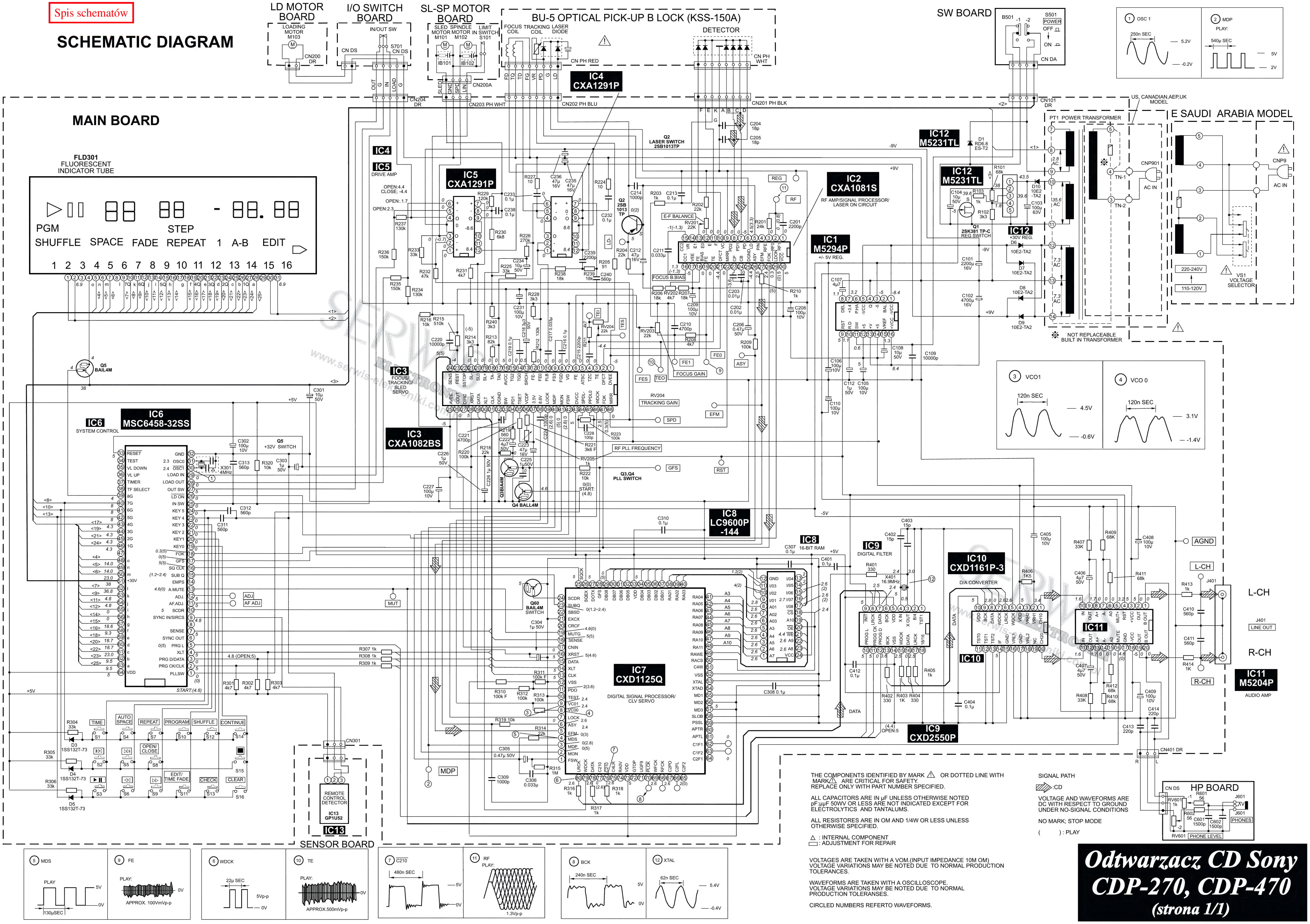
Spis schematów

SCHEMATIC DIAGRAM


LD MOTOR BOARD
LOADING MOTOR M103
CN200 DR
I/O SWITCH BOARD
IN/OUT SW
S701 CN DS
SL-SP MOTOR BOARD
SLED MOTOR M101
SPINDLE MOTOR M102
LIMIT IN SWITCH S101
BU-5 OPTICAL PICK-UP B LOCK (KSS-150A)
FOCUS COIL
TRACKING COIL
LASER DIODE
DETECTOR
CN PH RED
CN PH WHT
SW BOARD
B501
S501 POWER
CN DA
1 OSC 1
250n SEC
5.2V
-0.2V
2 MDP
PLAY:
540μ SEC
5V
2V
MAIN BOARD
CN204 DR
CN203 PH WHT
CN202 PH BLU
CN201 PH BLK
CN101 DR
IC4 CXA1291P
IC5 CXA1291P
DRIVE AMP
FLD301 FLUORESCENT INDICATOR TUBE
PGM
STEP
SHUFFLE
SPACE
FADE
REPEAT
1
A-B
EDIT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
Q2 LASER SWITCH 2SB1013TP
IC2 CXA1081S
RF AMP/SIGNAL PROCESSOR/ LASER ON CIRCUIT
IC12 M5231TL
REG SWITCH
+30V REG.
IC1 M5294P
+/- 5V REG.
PT1 POWER TRANSFORMER
US, CANADIAN,AEP,UK MODEL
E SAUDI ARABIA MODEL
CNP901
AC IN
CNP9
VS1 VOLTAGE SELECTOR
220-240V
110-120V
NOT REPLACEABLE BUILT IN TRANSFORMER
IC3 CXA1082BS
FOCUS/ TRACKING/ SLED SERVO
FOCUS GAIN
TRACKING GAIN
E-F BALANCE
FOCUS B.BIAS
RF PLL FREQUENCY
Q3,Q4 PLL SWITCH
3 VCO1
120n SEC
4.5V
-0.6V
4 VCO 0
3.1V
-1.4V
IC6 MSC6458-32SS
SYSTEM CONTROL
Q5 +32V SWITCH
Q5 BAIL4M
IC8 LC9600P-144
16-BIT RAM
IC9 DIGITAL FILTER
IC9 CXD2550P
IC10 CXD1161P-3
D/A CONVERTER
IC11 M5204P
AUDIO AMP
IC7 CXD1125Q
DIGITAL SIGNAL PROCESSOR/ CLV SERVO
Q60 BAIL4M SWITCH
MDP
MUT
ADJ
AF ADJ
AGND
L-CH
R-CH
J401 LINE OUT
CN401 DR
HP BOARD
CN DS
RV601 PHONE LEVEL
J601 PHONES
TIME
AUTO SPACE
REPEAT
PROGRAM
SHUFFLE
CONTINUE
OPEN/CLOSE
EDIT/ TIME FADE
CHECK
CLEAR
CN301
REMOTE CONTROL DETECTOR
IC13 GP1U52
SENSOR BOARD
5 MDS
PLAY
130μSEC
5V
0V
9 FE
PLAY:
APPROX. 100mVp-p
6 WDCK
22μ SEC
5Vp-p
10 TE
APPROX.500mVp-p
7 C210
480n SEC
11 RF
1.3Vp-p
8 BCK
240n SEC
12 XTAL
62n SEC
5.4V
-0.4V

THE COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ARE CRITICAL FOR SAFETY. REPLACE ONLY WITH PART NUMBER SPECIFIED.

ALL CAPACITORS ARE IN μF UNLESS OTHERWISE NOTED pF:μμF 50WV OR LESS ARE NOT INDICATED EXCEPT FOR ELECTROLYTICS AND TANTALUMS.

ALL RESISTORES ARE IN OM AND 1/4W OR LESS UNLESS OTHERWISE SPECIFIED.

⚠ : INTERNAL COMPONENT
▭ : ADJUSTMENT FOR REPAIR

VOLTAGES ARE TAKEN WITH A VOM.(INPUT IMPEDANCE 10M OM) VOLTAGE VARIATIONS MAY BE NOTED DUE TO NORMAL PRODUCTION TOLERANCES.

WAVEFORMS ARE TAKEN WITH A OSCILLOSCOPE. VOLTAGE VARIATIONS MAY BE NOTED DUE TO NORMAL PRODUCTION TOLERANCES.

CIRCLED NUMBERS REFERTO WAVEFORMS.

SIGNAL PATH
▨ :CD

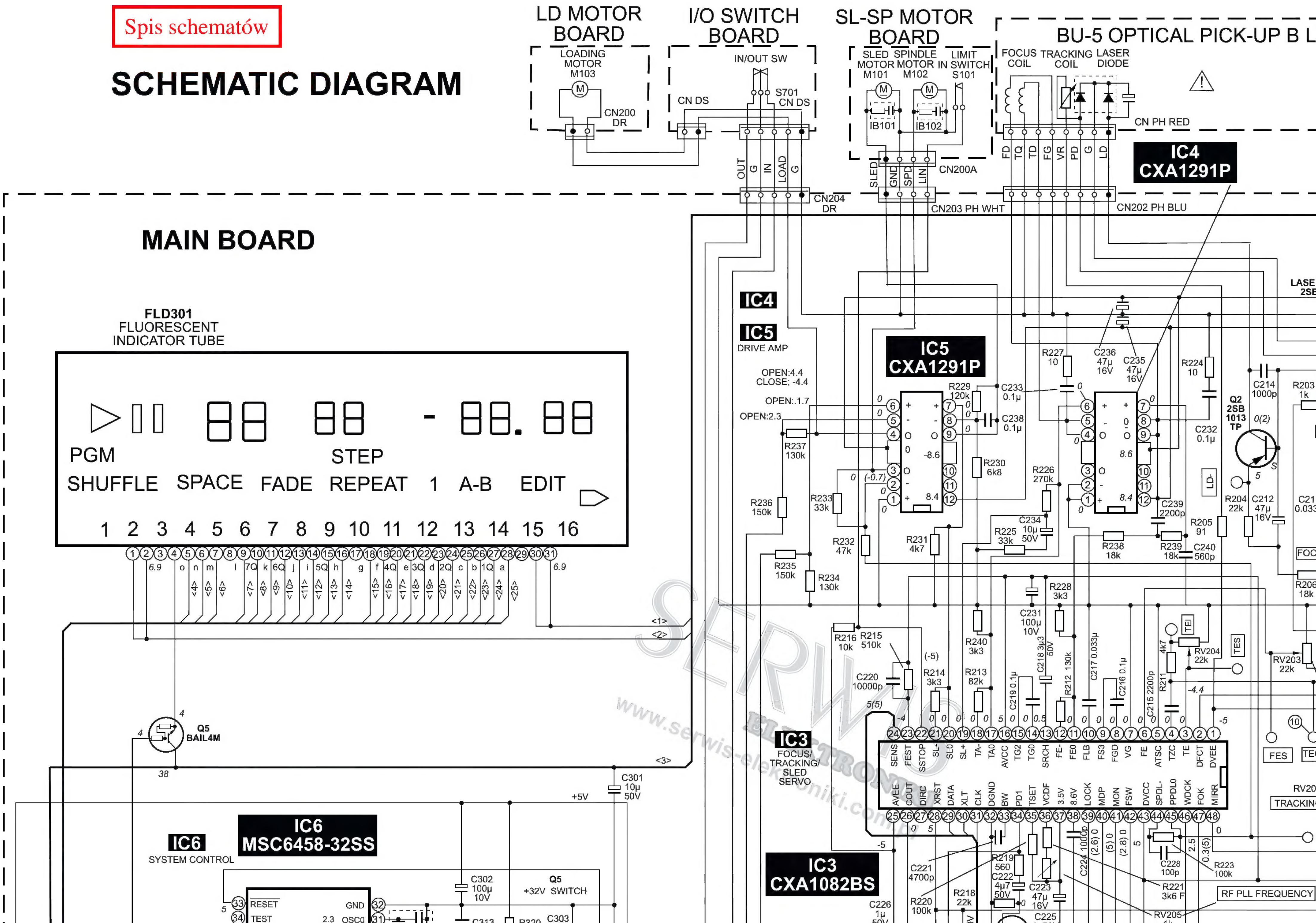
VOLTAGE AND WAVEFORMS ARE DC WITH RESPECT TO GROUND UNDER NO-SIGNAL CONDITIONS

NO MARK; STOP MODE
( ) : PLAY

Odtwarzacz CD Sony CDP-270, CDP-470
(strona 1/1)

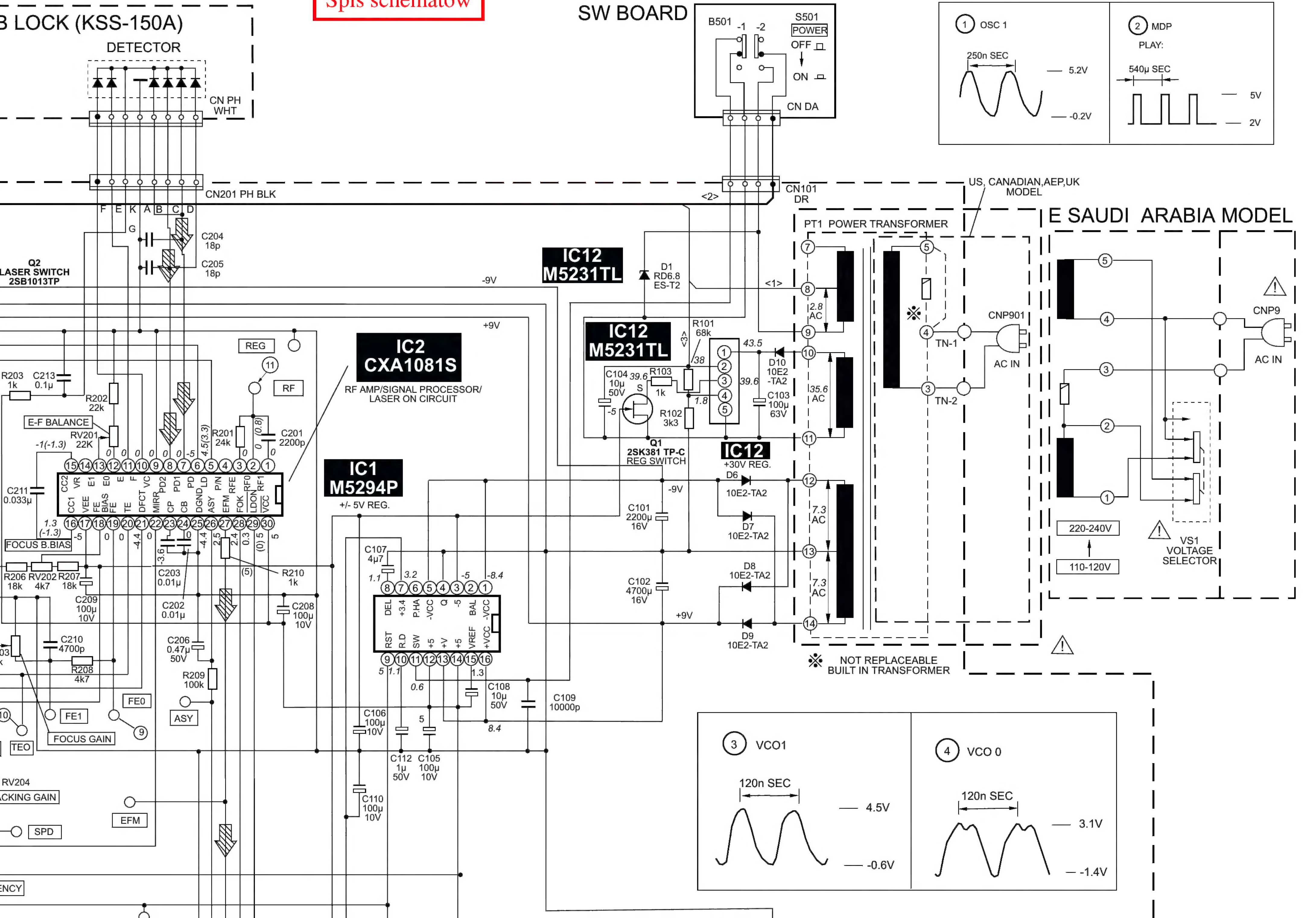
Spis schematów

SCHEMATIC DIAGRAM

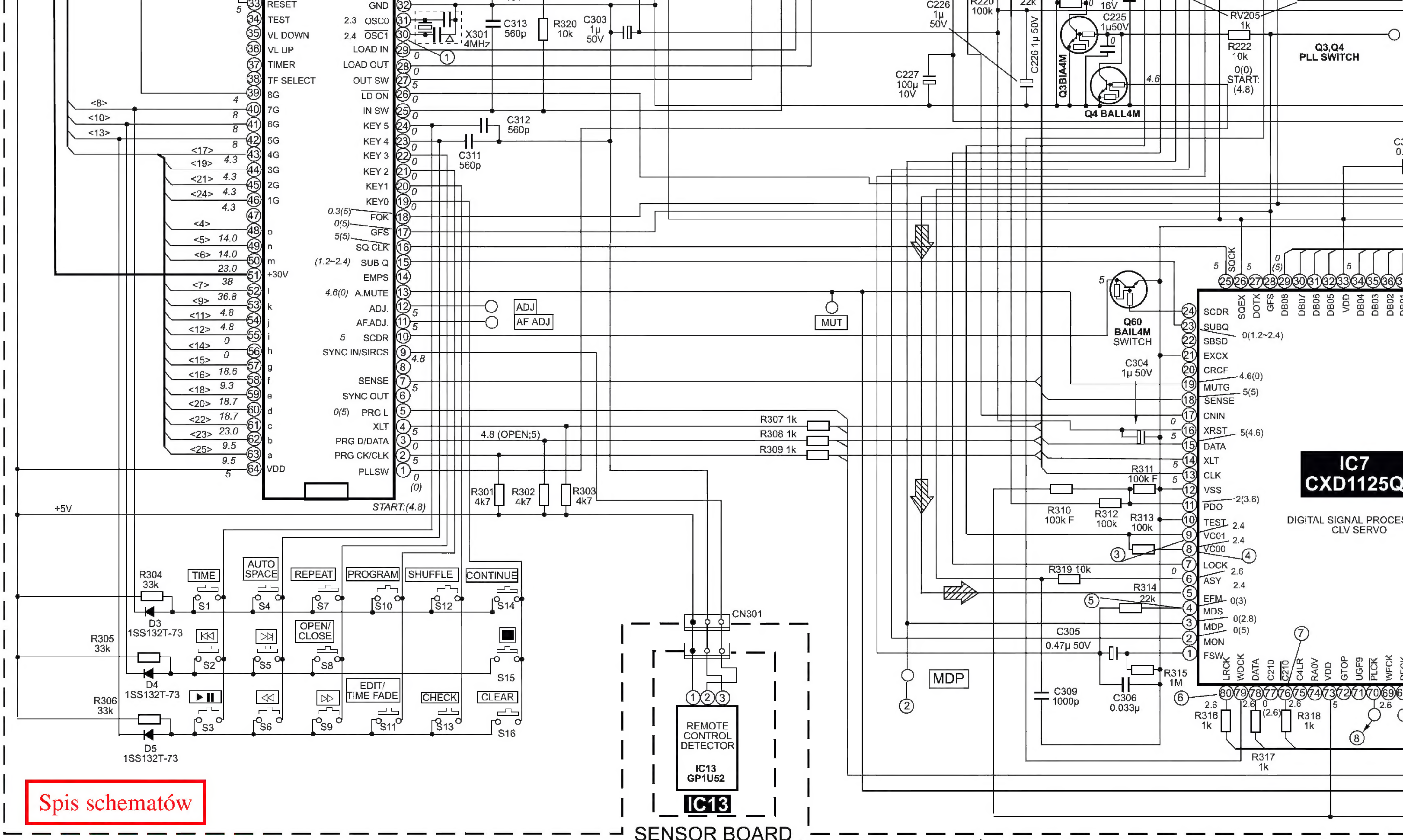

LD MOTOR BOARD
LOADING MOTOR M103
CN200 DR
I/O SWITCH BOARD
IN/OUT SW
S701 CN DS
CN DS
SL-SP MOTOR BOARD
SLED MOTOR M101
SPINDLE MOTOR M102
LIMIT IN SWITCH S101
IB101
IB102
CN200A
BU-5 OPTICAL PICK-UP B
FOCUS COIL
TRACKING COIL
LASER DIODE
CN PH RED
FD TQ TD FG VR PD G LD
IC4 CXA1291P
OUT G IN LOAD G
SLED GND SPD LIN
CN204 DR
CN203 PH WHT
CN202 PH BLU
MAIN BOARD
FLD301
FLUORESCENT INDICATOR TUBE
PGM
SHUFFLE
SPACE
FADE
STEP
REPEAT
1
A-B
EDIT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
IC4
IC5
DRIVE AMP
IC5 CXA1291P
OPEN:4.4
CLOSE; -4.4
OPEN:.1.7
OPEN:2.3
R237 130k
R236 150k
R233 33k
R232 47k
R235 150k
R234 130k
R229 120k
R230 6k8
R231 4k7
C233 0.1µ
C238 0.1µ
R227 10
C236 47µ 16V
C235 47µ 16V
R226 270k
R225 33k
C234 10µ 50V
R238 18k
R239 18k
C239 2200p
C240 560p
R224 10
C232 0.1µ
R205 91
Q2 2SB 1013 TP
C214 1000p
R203 1k
R204 22k
C212 47µ 16V
LD-
R228 3k3
C231 100µ 10V
R216 10k
R215 510k
C220 10000p
R214 3k3
R240 3k3
R213 82k
C219 0.1µ
C218 3µ3 50V
R212 130k
C217 0.033µ
C216 0.1µ
C215 2200p
R221 4k7
RV204 22k
RV203 22k
R206 18k
TEI
TES
FES
IC3
FOCUS/ TRACKING/ SLED SERVO
IC3 CXA1082BS
SENS FEST SSTOP SL- SLO SL+ TA- TAO AVCC TG2 TGO SRCH FE- FEO FLB FS3 FGD VG FE ATSC TZC TE DFCT DVEE
AVEE COUT DIRC XRST DATA XLT CLK DGND BW PD1 TSET VCDF 3.5V 8.6V LOCK MDP MON FSW DVCC SPDL- PPDLO WDCK FOK MIRR
C221 4700p
R219 560
C222 4µ7 50V
C223 47µ 16V
C224 1000p
C228 100p
R221 3k6 F
R223 100k
R220 100k
R218 22k
C226 1µ 50V
C225
RV205
RF PLL FREQUENCY
TRACKING
Q5 BAIL4M
C301 10µ 50V
+5V
IC6
SYSTEM CONTROL
IC6 MSC6458-32SS
C302 100µ 10V
Q5 +32V SWITCH
RESET
TEST
GND
OSCO
C313
R330
C303
LASE 2SE

SERWIS ELEKTRONIKI www.serwis-elektroniki.com.pl

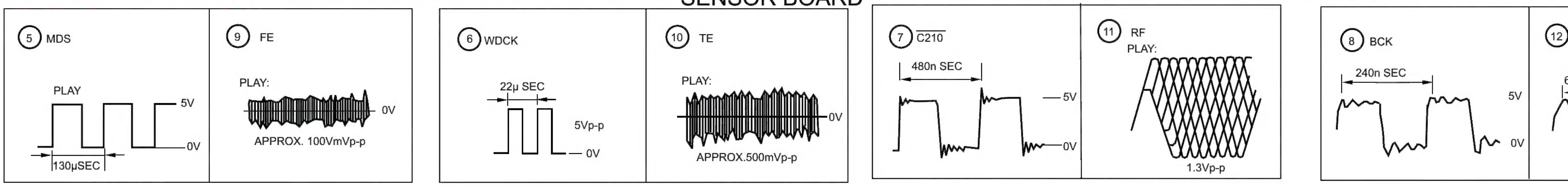
Spis schematów



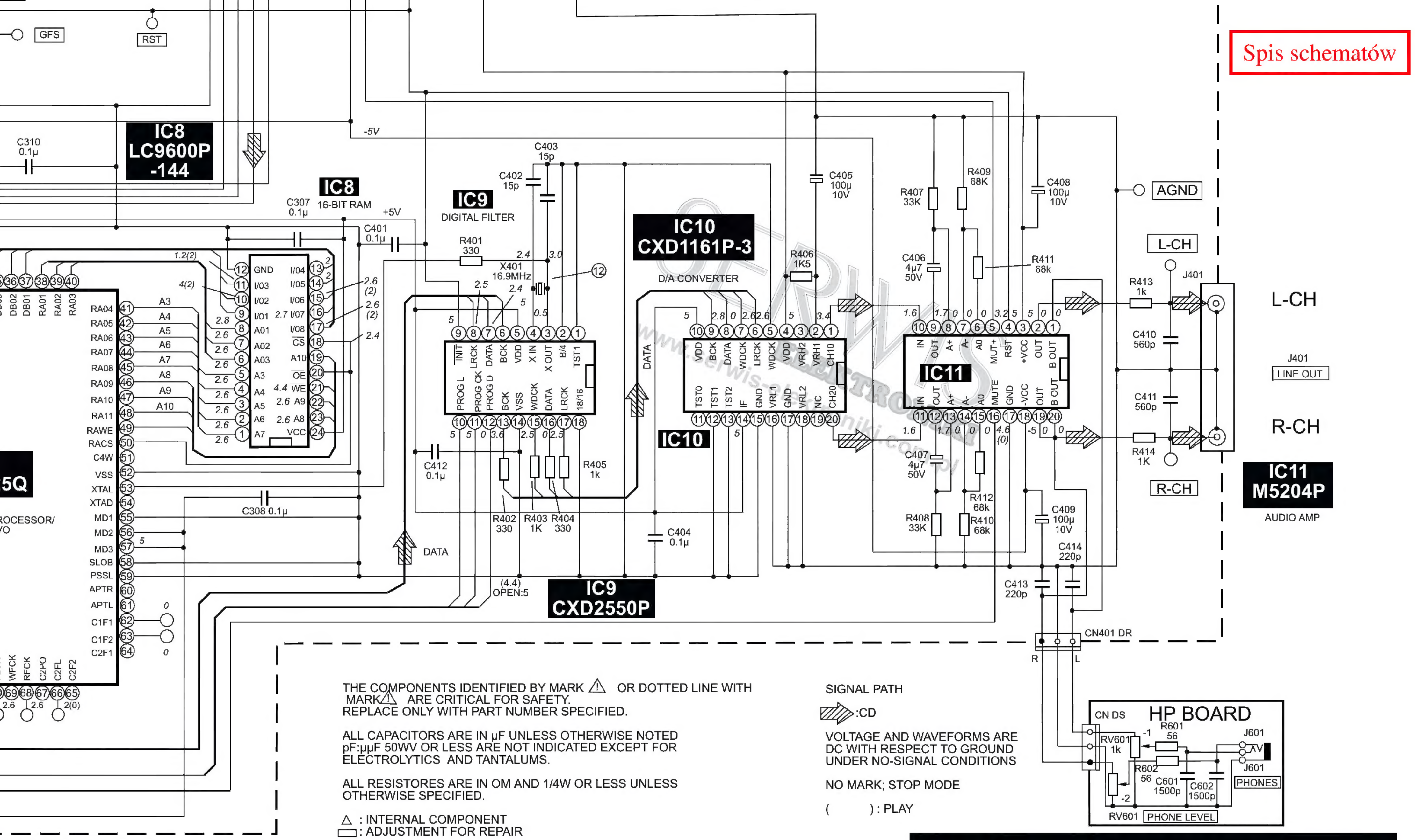
B LOCK (KSS-150A)
DETECTOR
CN PH WHT
CN201 PH BLK
F E K A B C D G
C204 18p
C205 18p
Q2 LASER SWITCH 2SB1013TP
SW BOARD
B501 -1 -2
S501 POWER OFF ON
CN DA
CN101 DR
<2>
<1>
IC12 M5231TL
D1 RD6.8 ES-T2
-9V
+9V
R101 68k
IC12 M5231TL
C104 10µ 50V
39.6
R103 1k
S
-5
R102 3k3
1.8
/38
43.5
39.6
D10 10E2-TA2
C103 100µ 63V
Q1 2SK381 TP-C REG SWITCH
IC12 +30V REG.
D6 10E2-TA2
D7 10E2-TA2
D8 10E2-TA2
D9 10E2-TA2
C101 2200µ 16V
C102 4700µ 16V
-9V
+9V
IC2 CXA1081S
RF AMP/SIGNAL PROCESSOR/ LASER ON CIRCUIT
REG
RF
IC1 M5294P
+/- 5V REG.
R203 1k
C213 0.1µ
R202 22k
E-F BALANCE
RV201 22K
-1(-1.3)
R201 24k
C201 2200p
(0.8)
4.5(3.3)
C211 0.033µ
CC2 VR E1 E0 E F VC PD2 PD1 PD LD P/N RFE RFO RF1
CC1 VEE FE FE BIAS TE DFCT MIRR CP CB DGND ASY EFM FOK LDON VCC
1.3 (-1.3)
FOCUS B.BIAS
R206 18k
RV202 4k7
R207 18k
C209 100µ 10V
C203 0.01µ
C202 0.01µ
R210 1k
(5)
C208 100µ 10V
C210 4700p
R208 4k7
C206 0.47µ 50V
R209 100k
FE0
FE1
FOCUS GAIN
ASY
TEO
RV204
ACKING GAIN
EFM
SPD
ENCY
C107 4µ7
1.1
3.2
-5
-8.4
DEL +3.4 P.HA -VCC Q -5 BAL -VCC
RST R.D SW +5 +V +5 VREF +VCC
5
1.1
0.6
1.3
C106 100µ 10V
C112 1µ 50V
C105 100µ 10V
C108 10µ 50V
C109 10000p
8.4
C110 100µ 10V
PT1 POWER TRANSFORMER
US, CANADIAN,AEP,UK MODEL
2.8 AC
35.6 AC
7.3 AC
7.3 AC
CNP901
TN-1
TN-2
AC IN
※
※ NOT REPLACEABLE BUILT IN TRANSFORMER
E SAUDI ARABIA MODEL
CNP9
AC IN
220-240V
110-120V
VS1 VOLTAGE SELECTOR
① OSC 1
250n SEC
5.2V
-0.2V
② MDP
PLAY:
540µ SEC
5V
2V
③ VCO1
120n SEC
4.5V
-0.6V
④ VCO 0
120n SEC
3.1V
-1.4V


RESET
TEST
VL DOWN
VL UP
TIMER
TF SELECT
GND
OSC0
OSC1
LOAD IN
LOAD OUT
OUT SW
LD ON
IN SW
KEY 5
KEY 4
KEY 3
KEY 2
KEY1
KEY0
FOK
GFS
SQ CLK
SUB Q
EMPS
A.MUTE
ADJ.
AF.ADJ.
SCDR
SYNC IN/SIRCS
SENSE
SYNC OUT
PRG L
XLT
PRG D/DATA
PRG CK/CLK
PLLSW
VDD
+30V
+5V
START:(4.8)
X301 4MHz
C313 560p
R320 10k
C303 1μ 50V
C312 560p
C311 560p
C226 1μ 50V
C227 100μ 10V
C225 1μ50V
RV205 1k
R222 10k
Q3BIA4M
Q4 BALL4M
Q3,Q4 PLL SWITCH
START: (4.8)
ADJ
AF ADJ
MUT
Q60 BAIL4M SWITCH
C304 1μ 50V
R307 1k
R308 1k
R309 1k
4.8 (OPEN;5)
R301 4k7
R302 4k7
R303 4k7
R311 100k F
R310 100k F
R312 100k
R313 100k
R319 10k
R314 22k
C305 0.47μ 50V
C309 1000p
C306 0.033μ
R315 1M
R316 1k
R317 1k
R318 1k
MDP
IC7 CXD1125Q
DIGITAL SIGNAL PROCES CLV SERVO
SCDR
SUBQ
SBSD
EXCX
CRCF
MUTG
SENSE
CNIN
XRST
DATA
XLT
CLK
VSS
PDO
TEST
VC01
VC00
LOCK
ASY
EFM
MDS
MDP
MON
FSW
SQCK
SQEX
DOTX
GFS
DB08
DB07
DB06
DB05
VDD
DB04
DB03
DB02
LRCK
WDCK
DATA
C210
C210
C4LR
RA0V
VDD
GTOP
UGF9
PLCK
WFCK
R304 33k
R305 33k
R306 33k
D3 1SS132T-73
D4 1SS132T-73
D5 1SS132T-73
TIME
AUTO SPACE
REPEAT
PROGRAM
SHUFFLE
CONTINUE
OPEN/ CLOSE
EDIT/ TIME FADE
CHECK
CLEAR
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
S12
S13
S14
S15
S16
CN301
REMOTE CONTROL DETECTOR
IC13 GP1U52
IC13
SENSOR BOARD

Spis schematów



Spis schematów


GFS
RST
-5V
+5V
C310 0.1µ
IC8 LC9600P -144
IC8 16-BIT RAM
C307 0.1µ
C401 0.1µ
C402 15p
C403 15p
IC9 DIGITAL FILTER
R401 330
X401 16.9MHz
IC10 CXD1161P-3
D/A CONVERTER
C405 100µ 10V
R406 1K5
R407 33K
R409 68K
C406 4µ7 50V
R411 68k
C408 100µ 10V
AGND
L-CH
R413 1k
J401
C410 560p
C411 560p
R414 1K
R-CH
LINE OUT
IC11 M5204P
AUDIO AMP
IC11
IC10
DATA
C412 0.1µ
R402 330
R403 1K
R404 330
R405 1k
C404 0.1µ
(4.4) OPEN:5
IC9 CXD2550P
C308 0.1µ
C407 4µ7 50V
R408 33K
R412 68k
R410 68k
C409 100µ 10V
C414 220p
C413 220p
CN401 DR
R
L
HP BOARD
CN DS
RV601 1k
R601 56
R602 56
C601 1500p
C602 1500p
J601
PHONES
RV601 PHONE LEVEL
GND
I/01
I/02
I/03
I/04
I/05
I/06
I/07
I/08
CS
OE
WE
VCC
A01
A02
A03
A3
A4
A5
A6
A7
A8
A9
A10
INIT
LRCK
DATA
BCK
VDD
X IN
X OUT
B/4
TST1
PROG L
PROG CK
PROG D
VSS
WDCK
18/16
WDCK
VRH2
VRH1
CH10
TST0
TST1
TST2
IF
VRL1
VRL2
NC
CH20
IN
OUT
A+
A-
A0
MUT+
RST
+VCC
B OUT
MUTE
-VCC
RA04
RA05
RA06
RA07
RA08
RA09
RA10
RA11
RAWE
RACS
C4W
VSS
XTAL
XTAD
MD1
MD2
MD3
SLOB
PSSL
APTR
APTL
C1F1
C1F2
C2F1
DB02
DB01
RA01
RA02
RA03
WFCK
RFCK
C2PO
C2FL
C2F2
5Q
ROCESSOR/ I/O

THE COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK⚠ ARE CRITICAL FOR SAFETY.
REPLACE ONLY WITH PART NUMBER SPECIFIED.

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ALL RESISTORES ARE IN OM AND 1/4W OR LESS UNLESS OTHERWISE SPECIFIED.

△ : INTERNAL COMPONENT
▭ : ADJUSTMENT FOR REPAIR

VOLTAGES ARE TAKEN WITH A VOM.(INPUT IMPEDANCE 10M OM) VOLTAGE VARIATIONS MAY BE NOTED DUE TO NORMAL PRODUCTION TOLERANCES.

WAVEFORMS ARE TAKEN WITH A OSCILLOSCOPE. VOLTAGE VARIATIONS MAY BE NOTED DUE TO NORMAL PRODUCTION TOLERANSES.

CIRCLED NUMBERS REFERTO WAVEFORMS.

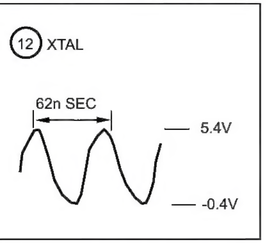
SIGNAL PATH

▨:CD

VOLTAGE AND WAVEFORMS ARE DC WITH RESPECT TO GROUND UNDER NO-SIGNAL CONDITIONS

NO MARK; STOP MODE

( ) : PLAY



Odtwarzacz CD Sony CDP-270, CDP-470

(strona 1/1)